Claims:

1. (Currently Amended) A process for preparing a functionalized anionic polymerization initiator, the process comprising:

combining a functionalized styryl compound and an organolithium compound, where the functionalized styryl compound is defined by

where each R¹ is independently hydrogen or a hydrocarbyl group, R² is hydrogen or a hydrocarbyl group, R³ is hydrogen or a hydrocarbyl group, each R⁴ is independently hydrogen or a monovalent organic group, R⁵ is a hydrocarbyl group, R⁶ is a covalent bond or a hydrocarbylene group, and A is a functional group.

2. (Original) An anionic polymerization initiator defined according to the formula I:

where each R¹ is independently hydrogen or a hydrocarbyl group, R² is hydrogen or a hydrocarbyl group, R³ is hydrogen or a hydrocarbyl group, each R⁴ is independently hydrogen or a monovalent organic group, R⁵ is a hydrocarbyl group,

where at least one of R³ or R⁵ is hydrocarbyl, R⁶ is a covalent bond or a hydrocarbylene group, and A is a functional group.

3. (Currently Amended) A polymer prepared by a process of comprising the steps of:
polymerizing monomer with an initiator that is prepared by combining a
functionalized styryl compound and an organolithium compound, where the
functionalized styryl compound is defined by

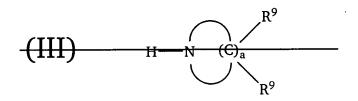
(I)
$$R^{1}$$
 R^{1}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{5}
 R^{5}
 R^{4}

where each R¹ is independently hydrogen or a hydrocarbyl group, R² is hydrogen or a hydrocarbyl group, R³ is hydrogen or a hydrocarbyl group, each R⁴ is independently hydrogen or a monovalent organic group, R⁵ is a hydrocarbyl group, R⁶ is a covalent bond or a hydrocarbylene group, and A is a functional group.

4. (cancelled)

5. (Currently Amended) The process of claim 1, where the functionalized styryl compound is N-(cinnamyl): -pyrrolidine, -3-methylpyrrolidine, -3,4-dimethylpyrrolidine, -3,3-dimethylpyrrolidine, -piperidine, -4-methylpiperidine, -3-methylpiperidine, -morpholine, -4-methylpiperazine, -4-ethyl-piperazine, -4-propylpiperazine, -hexamethyleneimine (or --perhydroazepine), -trimethylperhydroazepine, -azacyclotridecane, -azacyclohexadecane, -azacycloheptadecene, -trimethylazabicycloöctane, [[or]] -perhydroisoquinoline, or -perhydroindole.

- 6. (Currently Amended) The process of claim 1, where said step of combining combines about 0.8 mmol of the eyelic amino functionalized styryl compound with about 1.0 mmol of the organolithium compound.
- 7. (Previously presented) The process of claim 1, where step of combining occurs in the presence of about 1 to about 20 mmol of monomer in order to chain extend the initiator.
- 8. (Currently Amended) The process of claim 1, where the eylic amine compound functional group A is defined by the formula III



where each R⁹ is independently hydrogen or a monovalent organic group and a is an integer from 4 to about 18.

9. (Previously Presented) The process of claim 1, where the functionalized styryl compound is prepared by combining a reactive styryl compound and a functionalized nucleophile.

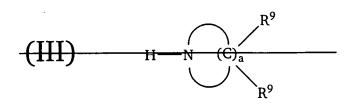
- 10. (Currently Amended) The process of claim 1, where the functionalized styryl compound is prepared by combining a reactive styryl compound and a functionalized electrophile.
- 11. (Previously Presented) The polymer of claim 3, where the functionalized styryl compound is defined by

(I)
$$R^{1} \xrightarrow{R^{1}} C \xrightarrow{R^{3}} C \xrightarrow{R^{4}} R^{5} \xrightarrow{R}$$

where each R¹ is independently hydrogen or a hydrocarbyl group, R² is hydrogen or a hydrocarbyl group, R³ is hydrogen or a hydrocarbyl group, each R⁴ is independently hydrogen or a monovalent organic group, R⁵ is a hydrocarbyl group, R⁶ is a covalent bond or a hydrocarbylene group, and A is a functional group.

- 12. (Currently Amended) The polymer of claim 3, where the functionalized styryl compound is N-(cinnamyl): -pyrrolidine, -3-methylpyrrolidine, -3,4-dimethylpyrrolidine, -3,3-dimethylpyrrolidine, -piperidine, -4-methylpiperidine, -3-methylpiperidine, -morpholine, -4-methylpiperazine, -4-ethyl-piperazine, -4-propylpiperazine, -hexamethyleneimine (or -perhydroazepine), -trimethylperhydroazepine, -azacyclotridecane, -azacyclohexadecane, -azacycloheptadecene, -trimethylazabicycloöctane, [[or]] -perhydroisoquinoline, or -perhydroindole.
- 13. (Currently Amended) The polymer of claim 3, where said step of combining combines about 0.8 mmol of the eyelic amino functionalized styryl compound with about 1.0 mmol of the organolithium compound.

- 14. (Previously Presented) The polymer of claim 3, where step of combining occurs in the presence of about 1 to about 20 mmol of monomer in order to chain extend the initiator.
- 15. (Currently Amended) The polymer of claim 3, where the eylic amine compound functional group A is defined by the formula III



where each R⁹ is independently hydrogen or a monovalent organic group and a is an integer from 4 to about 18.

- 16. (Previously Presented) The polymer of claim 3, where the functionalized styryl compound is prepared by combining a reactive styryl compound and a functionalized nucleophile.
- 17. (Currently Amended) The polymer of claim 3, where the functionalized styryl compound is prepared by combining a reactive styryl compound and a functionalized electrophile.
- 18. (New) A process for preparing a functionalized anionic polymerization initiator, the process comprising:

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combining a functionalized styryl compound and an organolithium compound, where the functionalized styryl compounds includes a functional group selected from the group consisting of an amine group, a phosphine group, an ether group, a thio ether group, a seleno group, a silyl group, an alkyl tin group, and a short-chain thermoplastic polymer segment.

- 19. (New) The process of claim 19, where the functional group is selected from the group consisting of an amine group, a phosphine group, an ether group, a thio ether group, a seleno group, a silyl group, and an alkyl tin group.
- 20. (New) The process of claim 19, where the functional group is selected from the group consisting of an amine group, a phosphine group, a silyl group, and an alkyl tin group.
- 21. (New) A process for preparing a functionalized anionic polymerization initiator, the process comprising:

combining a functionalized styryl compound and an organolithium compound, where the functionalized styryl compound is N-(cinnamyl): -pyrrolidine, -3-methylpyrrolidine, -3,4-dimethylpyrrolidiene, -3,3-dimethylpyrrolidine, -piperidine, -4- methylpiperidine, -3-methylpiperidine, -morpholine, -4- methylpiperazine, -4-ethyl-piperazine, -4-propylpiperazine, -hexamethyleneimine, -trimethylperhydroazepine, -azacyclotridecane, -azacyclohexadecane, -azacycloheptadecene, -trimethylazabicycloöctane, -perhydroisoquinoline, or -perhydroindole.